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RELATIONSHIPS AMONG EARTH'S GRAVITY FIELD MAGNETIC
FIELD CRUSTAL STRUCTURE (U) MONTANA UNIV MISSOULA
S D SHERIFF 03 DEC 07 AFOSR-TR-88-0549 AFOSR-87-0025

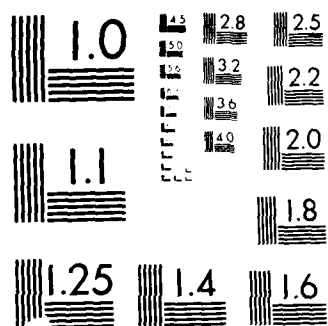
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19. ABSTRACT (Continue on reverse if necessary and identify by block number) The equipment has been purchased and received. It is currently in a phase of beta-testing with a research project on the edge of the Idaho Batholith in western Montana.			
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University of Montana

AFOSR-TN- 88-0549

Missoula, Montana 59812

December 3, 1987

H. R. Haraldsen
Contracting Officer
AFSOR/PKD
Building 410
Bolling AFB
Washington, D.C. 20332-6448

re: grant #AFSOR-87-0025

This letter is the required final report for grant #AFSOR-87-0025. The following equipment, in the categories of the original contract, is currently operational in the lab:

- A. Sun Microsystems 3/110 workstation with supporting software and manuals. This includes a floating point accelerator, modem and 0.25" tape drive: \$25,939
- Compatible Sun Laserwriter and Hewlett Packard color-dot printer: \$7,688
- B. Summagraphics 42" x 60" Microgrid II digitizing table and microcomputer interface: \$7,840
- C. Schonstedt SSM-2A spinner magnetometer: \$32,234
- Advance Magnetics magnetic shield assemblies: \$3,646
- Schonstedt DM-2220 digital magnetometer: \$2,881
- D. 10 kiloGauss Alpha Scientific electromagnet including the matched reversible power supply: \$7,730
- E. Bartington Instruments digital magnetic susceptibility meter: \$3,985

TOTAL Expenditure from grant and matching funds: \$91,943
AFSOR provided \$82,855 with grantee cost share of \$9,088.

The only significant change to this equipment list from the original grant list is the purchase of a Sun Microsystems 3/110 workstation in place of a DEC VAXstation II. This swap was after investigation of the current market and consultaion with our computer center. The Sun Microsystem computer is, simply, a lot more computer for the money and a better tool with which to pursue the specified research. The change in workstations caused a little bit of reorganization in the software and digitizing budget lines but all the acquired equipment easily meets or exceeds the sepcifications of the equipment specified in the grant proposal.

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The equipment is now in a phase of beta-testing with a research project on the edge of the Idaho Batholith, a major crustal structure in western Montana described in the original research proposal. This project should be concluded in the next several months. The subsequent project will be an investigation of another major crustal structure described in the original grant proposal, the Purcell Anticlinorium. Currently, I have an NSF supported project investigating the magnetic properties of some volcanic rocks which outcrop near the crest of the anticlinorium.

Sincerely,

Steven D. Sheriff
Steven D. Sheriff

SDS/me

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